

PTO-1390 (Rev. 09-2006)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES

ATTORNEY'S DOCKET NUMBER

536-009.27 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (If known, see 37 CFR 1.5) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** 10/580,669 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/EP2004/013954 03 December 2004 05 December 2003 TITLE OF INVENTION Bipolar transistor with raised base connection region and process for the production thereof APPLICANT(S) FOR DO/EO/US Holger Rücker and Bernd Heinemann Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/580,669				INTERNATIONAL APPLICATION NO. PCT/EP2004/013954		ATTORNEY'S DOCKET NUMBER 536-009.27	
20. Other items or information:							
The foll	owing fees have b	een submitted			CALCULATIONS	PTO USE ONLY	
21. 🗌 Basi	ic national fee (37	CFR 1.492(a))		\$300	\$		
22.	nination fee (37 Cf	FR 1.492(c))					
by IPEA/	'US indicates all cl	aims satisfy provi	rnational preliminary examina sions of PCT Article 33(1)-(4)	\$0	\$		
	rch fee (37 CFR 1						
If the written opin	nion of the ISA/US	or the Internation	al preliminary examination rens of PCT Article 33(1)-(4)				
Search fee (37 C	FR 1.445(a)(2)) ha	as been paid on t	he international application to	the USPTO as an	\$		
International Sea	rch Report prepar	ed by an ISA othe	er than the US and provided to	o the Office or		*	
☐ Additional fe	TOTAL OF 21, 22		d in paper over 100 sheets (e	excluding sequence			
listing in	compliance with 3 listing in an electron	7 CFR 1.821(c) o	r (e) in an electronic medium	or computer			
			paper or fraction thereof.				
Total Sheets	Extra Sheets	A Sheets Number of each additional 50 or fraction thereof (round up to a whole number)					
- 100 = /50 =				x \$250	\$		
			h fee, examination fee, or the le (37 CFR 1.492(h)).	oath or declaration	\$ 130		
CLAIMS NUMBER FILED		NUMBER EXTRA	RATE	\$			
	Total claims - 20 =			x \$ 50	\$		
Independent claims - 3 = MULTIPLE DEPENDENT CLAIM(S) (if applicable)				\$	_		
MOLTIPLE DEP	ENDENT CLAIM(S	CALCULATIONS =	\$	1			
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.							
SUBTOTAL =					\$		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ 130		
TOTAL NATIONAL FEE =					\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$ 40			
TOTAL FEES ENCLOSED =					\$ 300.00		
					Amount to be refunded:	\$	
				Amount to be charged	\$ 300.00		

03/22/2007 MKAYPAGH 00000035 10580669

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a. 🔽	A check in the amount of \$ 300.00 to cover the a	above fees is enclosed.		
ь. 🗌	Please charge my Deposit Account No in the amount A duplicate copy of this sheet is enclosed.	of \$ to cover the above fees.		
c. 🗸	The Commissioner is hereby authorized to charge any additional fees Account No. <u>23-0442</u> A duplicate copy of this sheet is enclosed	which may be required, or credit any overpayment to Deposit .		
d. 🔲	Fees are to be charged to a credit card. WARNING: Information on the be included on this form. Provide credit card information and author to the USPTO. However, when paying the basic national fee, the PTO	ization on PTO-2038. The PTO-2038 should only be mailed or faxed		
	ADVISORY: If filing by EFS-Web, do NOT attach the PTO-2038 for advised that this is not recommended and by doing so your credit of information, it is recommended paying fees online by using the electrons.	card information may be displayed via PAIR. To protect your		
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				
SEND A	ILL CORRESPONDENCE TO:	- Sin		
10/000	Francis Van Dan Olivia 9, Adalahaan			
	, Fressola, Van Der Sluys & Adolphson	SIGNATURE		
Bradford Green, Bldg. Five		James A. Retter		
	Main St.	NAME		
P.O. Box 224		41,266		
Monroe, CT 06468		REGISTRATION NUMBER		



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO. FIRST NAMED APPLICANT ATTY. DOCKET NO.

10/580,669 Hulger Rucker 53600927

INTERNATIONAL APPLICATION NO.

PCT/EP04/13954

I.A. FILING DATE PRIORITY DATE

12/03/2004

4955 WARE FRESSOLA VAN DER SLUYS & ADOLPHSON, LLP BRADFORD GREEN, BUILDING 5 755 MAIN STREET, P O BOX 224 MONROE, CT 06468

CONFIRMATION NO. 5326
371 FORMALITIES LETTER
**OC000000021998650*

Date Mailed: 01/17/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

Copy of the International Application filed on 05/26/2006

• Copy of the International Search Report filed on 05/26/2006

Information Disclosure Statements filed on 05/26/2006

U.S. Basic National Fees filed on 05/26/2006

Priority Documents filed on 05/26/2006

RECEIVED WARE, FRESSOLA, VAN DER SLUYS & ADOLPHSON

JAN 2 2 2007

FILE 536-009.27 ANS'D. JAR

DOCKETED

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Translation of the application into English. Note a processing fee will be required if submitted later than 30 months from the priority date.
- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at http://www.uspto.gov/ebc.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

INDIA L EVANS

Telephone: (703) 308-9140 EXT 212

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/580,669	PCT/EP04/13954	53600927

FORM PCT/DO/EO/905 (371 Formalities Notice)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Holger Rucker et al.

Application No.: 10/580,669

Group No.:

To be assigned

Filed: May 26, 2006

Examiner:

To be assigned

For Bipolar transistor with raised base connection region and process....

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT THAT SUBSTITUTE SPECIFICATION CONTAINS NO NEW MATTER (37 C.F.R. § 1.125)

1. Identification of person making this statement

	James	Α.	Retter	_					•
(typ	e or prin								
	Ware,	Fre	essola,	Van	Der	Sluys	&	Adolphson	LLP
	Bradf	ord	Green,	Bui	ldin	g 5			
Add	ress								-
	755 Ma	ain	St., Po) Bo	x 22	4			
	Monro	e, (CT 0646	3-02	24				_

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

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I hereby certify that, on the date shown below, this correspondence is being:

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37 C.F.R. § 1.8(a)	37 C.F.R. § 1.10 *	

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TRANSMISSION

[] facsimile transmitted to the Patent and Trademark Office, (571) 273-8300.

Date: March 19, 2007

Signature

Sue Muro

(type or print name of person certifying)

^{*} Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1,703(f). Consider "Express Mail Post Office to Addressee" (§ 1,10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

4)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Holger Rucker et al.

Application No.: 10/580,669

Filed: May 26, 2006

Group No.: Examiner: To be assigned To be assigned

For: Bipolar transistor with raised base connection region and process ...

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL OF SUBSTITUTE SPECIFICATION (37 C.F.R. § 1.125)

NOTE: A substitute specification, excluding the claims, may be filed at any point up to payment of the issue fee if it is accompanied by items indicated below. See 37 C.F.R. § 1.125(b).

1. Enclosed is a substitute specification for the originally filed specification in this application.

NOTE: The substitute specification must be submitted in clean form without markings as to amended material. The paragraphs of any substitute specification, other than the claims, should be individually numbered in Arabic numerals so that any amendment to the specification may be made by replacement paragraph in accordance with § 1.121(b)(1). 37 C.F.R. § 1.125(c).

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

(When using Express Mail, the Express Mail label number is mandatory; Express Mail certification is optional.)

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	37 C.F.R. § 1.8(a)	37 C.F.R. § 1.10 °		
	with sufficient postage as first class mail.	as "Express Mail Post Office to Addressee" Mailing Label No. EV 914 765 975 USmandatory)		
		TRANSMISSION		
	facsimile transmitted to the Patent and Trad	demark Office, (571) 273-8300.		
Date: March 19, 2007		Signature		
001		Sue Muro		
		Itype or print name of person cortificial		

* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although the date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

(Transmittel of Substitute Specification [9-27]-page 1 of 2)

(complete the following applicable item) 2.

Reg. No.: 41,266

Tel. No.: (203) 261-1234

Customer No.: 004955

This substitute specification is submitted, in response to a requirement by the Examiner.

OR

- This substitute specification is being voluntarily submitted, in order to facilitate the processing of the application.
- 3. Also enclosed is a marked-up copy of the substitute specification showing the matter being added to and the matter being deleted from the specification.
- 4. Accompanying this transmittal is a statement, as required by 37 C.F.R. § 1.125(b)(1), that the substitute specification transmitted herewith contains no new matter.

SIGNATURE OF PRACTITIONER

James A. Retter

(type or print name of practitioner)

Ware, Fressola, Van Der Sluys & Adolphsor

Bradford Green, Building 5

P.O. Address

755 Main St., PO Box 224

Monroe, CT 06468-0224

(Transmittal of Substitute Specification [9-27]-page 2 of 2)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Holger Rucker et al.

10/580,669 Application No.: .

Group No.: TBA Filed: May 26, 2006 Examiner: TBA

For: Bipolar transistor with raised base connection region and process ...

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

C.F.R. § 1.6(d)(4).

NOTE: The Office has authorized the payment of any required publication fee by authorization to charge a deposit account or credit card, and drawings: 703-746-4000 facsimile number. The Office notes that although the submission of drawings by facsimile may reduce the quality of drawings, the Office will generally print the drawings as received. See "New Patents Central FAX Number and Updated Lists of Exceptions to the Centralized Delivery and Facsimile Transmission Policy for Patent Related Correspondence," 1296 OG 76, July 12, 2005.

TRANSMITTAL OF FORMAL DRAWING(S) PRIOR TO NOTICE OF ALLOWANCE

Attached please find the formal drawings for this application.

	SIGNATURE OF PRACTITIONER	
Reg. No. 41,266	•	
	James A. Retter	
	(type or print name of practitioner)	
Tel. No.: (203) 261-1234		
·	P.O. Box 224	
	P.O. Address	
Customer No.: 004955		
	Monroe, CT 06468 '	
NOTE: Malantik in a indial of a second of a	has tot include the application asymbol on the title of the include	

"Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

	Sue_Muro
	(type of print name of person mailing paper)
Date:Ma	rch 19, 2007 /le MIRA
	Signature of person mailing paper
WARNING:	"Facsimile transmissions are not permitted and if submitted will not be accorded a date of receipt"
	for "(4) Drawings submitted under 66 1.81, 1.83 through 1.85, 1.152, 1.165, 1.174, 1.437 "37

y Jan W

the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawings a minimum distance of 1.5 cm. (% inch) down from the top of the page. In addition, a reference to the application number, or, if an application number has not been assigned, the inventor's name, may be included in the left-hand corner, provided that the reference appears within 1.5 cm (% inch) from the top of the sheet." 37 C.F.R. § 1.84(c)).

(Transmittal of Formal Drawings [5-2]—page 2 of 2)